

FIG.1

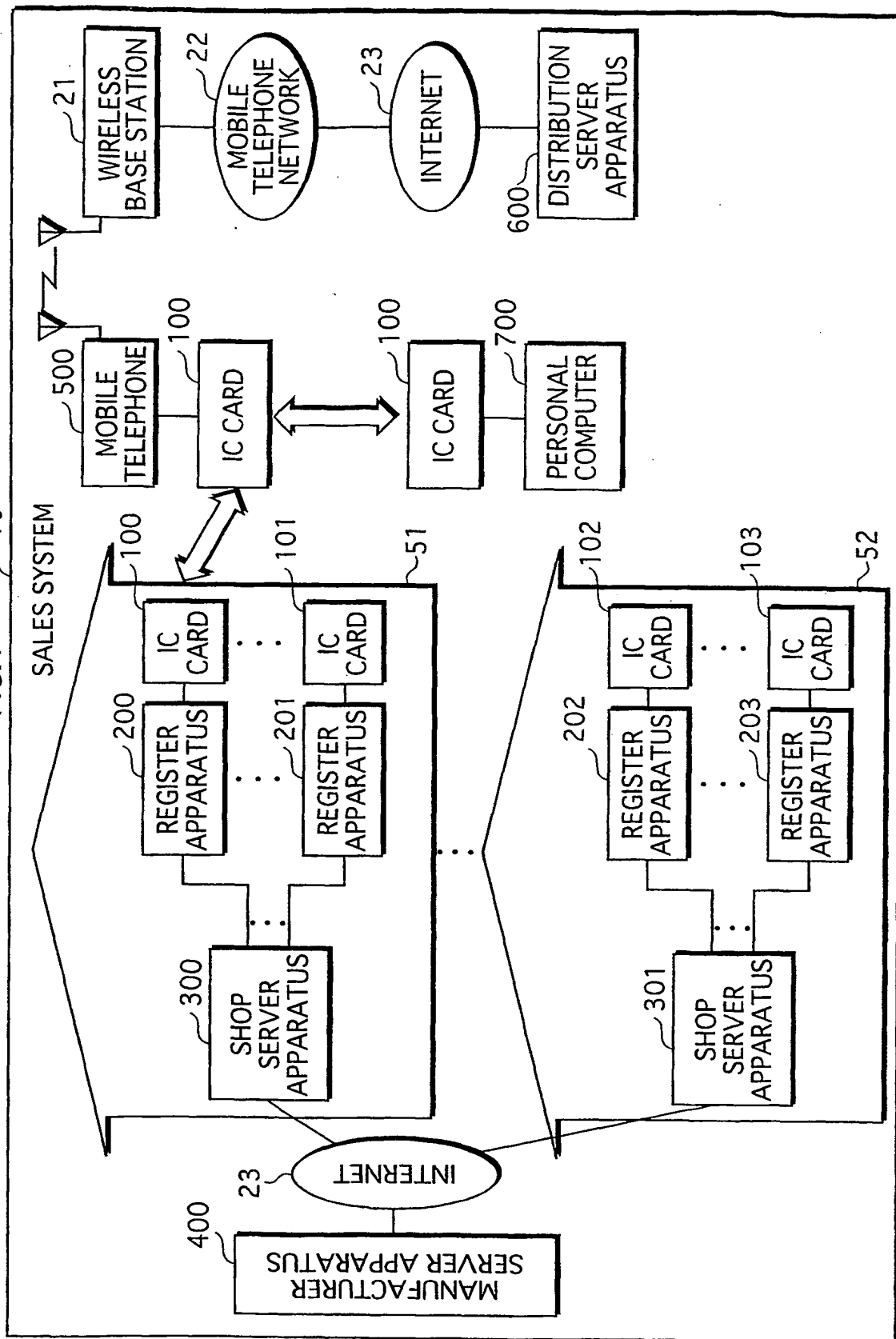


FIG.2

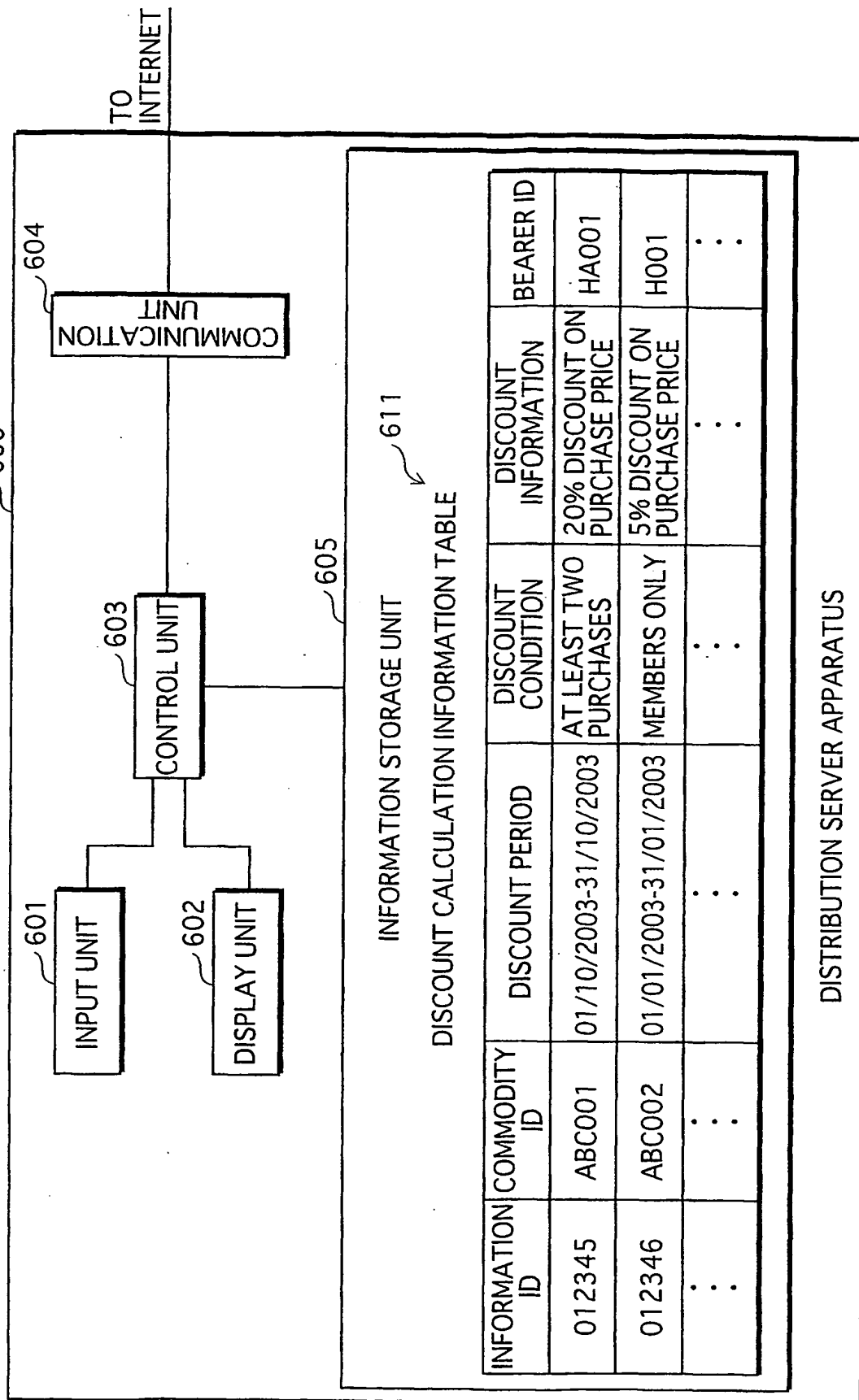


FIG.3

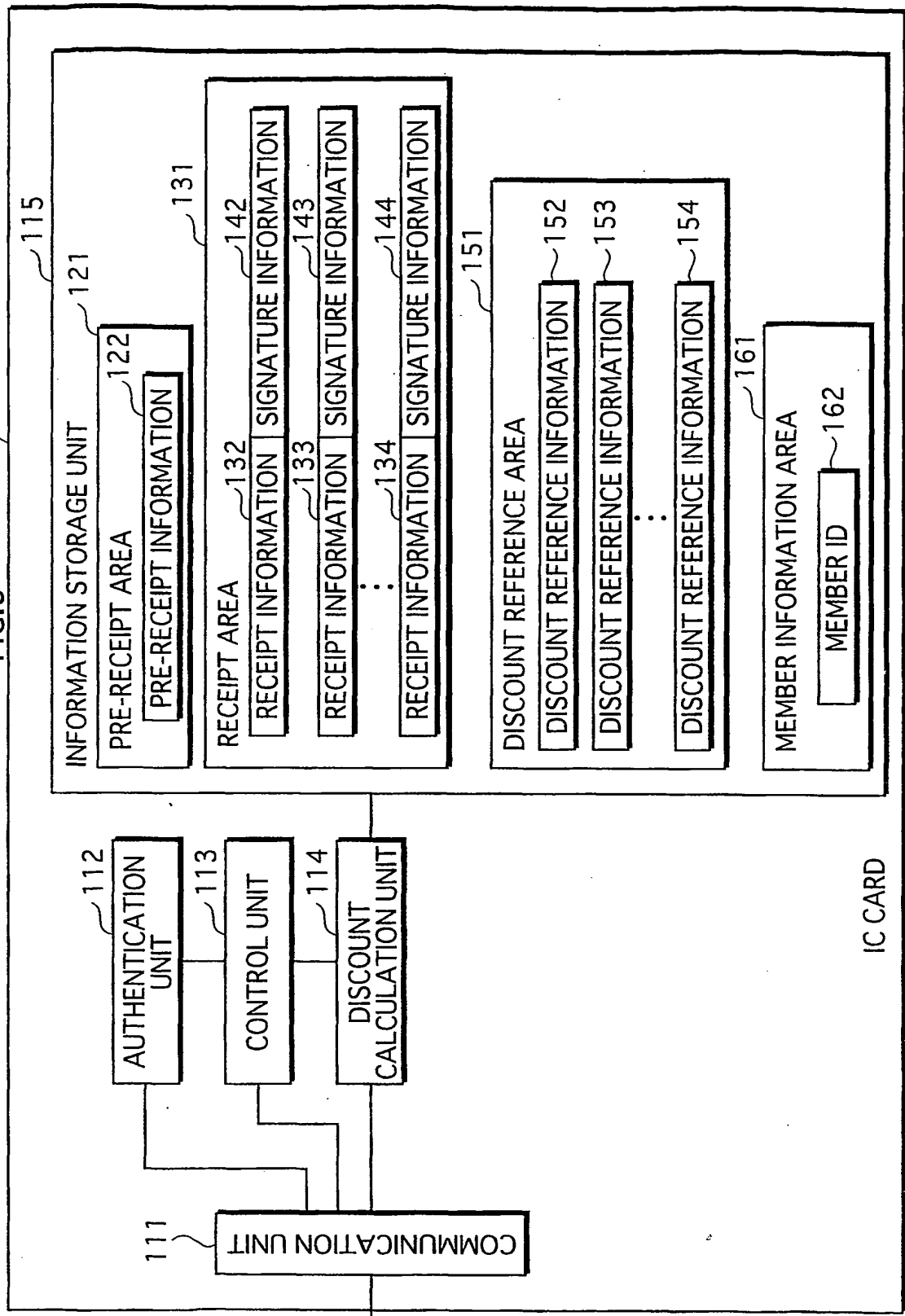


FIG.4

PRE-RECEIPT INFORMATION

122

PRE-RECEIPT SEGMENT		PRE
SELLER ID		H001
SHOP ID		HA001
RECEIPT ID		R23456
SELLING TIME/DATE		18:31 17/01/2003
REGISTER ID		REG01
COMMODITY SELLING INFORMATION	COMMODITY ID	ABC001
	UNIT PRICE	¥100
	NUMBER OF UNITS	10
	TOTAL PRICE OF COMMODITIES	¥1000
	TAX	¥50
	MANUFACTURER ID	M001
	BEARER ID	HA001
	DISCOUNT FLAG	3: DISCOUNT NOT APPLIED
.		
.		
.		
COMMODITY SELLING INFORMATION	COMMODITY ID	ABC002
	UNIT PRICE	¥200
	NUMBER OF UNITS	10
	TOTAL PRICE OF COMMODITIES	¥2000
	TAX	¥100
	MANUFACTURER ID	M001
	BEARER ID	M001
	DISCOUNT FLAG	1: DISCOUNT NOT APPLICABLE
OVERALL TOTAL AMOUNT		¥3150

FIG.5

RECEIPT INFORMATION

132

SELLER ID		H001
SHOP ID		HA001
RECEIPT ID		R23001
SELLING TIME/DATE		18:30 10/01/2003
REGISTER ID		REG02
COMMODITY SELLING INFORMATION	COMMODITY ID	ABC001
	UNIT PRICE	¥100
	NUMBER OF UNITS	15
	TOTAL PRICE OF COMMODITIES	¥1500
	TAX	¥75
	MANUFACTURER ID	M001
	BEARER ID	HA001
	DISCOUNT FLAG	2: DISCOUNT APPLIED
COMMODITY SELLING INFORMATION	COMMODITY ID	ABC002
	UNIT PRICE	¥200
	NUMBER OF UNITS	15
	TOTAL PRICE OF COMMODITIES	¥3000
	TAX	¥150
	MANUFACTURER ID	M001
	BEARER ID	M001
	DISCOUNT FLAG	1: DISCOUNT NOT APPLICABLE
OVERALL TOTAL AMOUNT		¥4725

FIG.6

DISCOUNT REFERENCE INFORMATION

152

INFORMATION ID	012345
COMMODITY ID	ABC001
DISCOUNT PERIOD	01/10/2003-31/10/2003
DISCOUNT CONDITION	AT LEAST TWO PURCHASES
DISCOUNT INFORMATION	20% DISCOUNT ON PURCHASE PRICE

DISCOUNT REFERENCE INFORMATION

153

INFORMATION ID	012346
COMMODITY ID	ABC002
DISCOUNT PERIOD	01/01/2003-31/01/2003
DISCOUNT CONDITION	MEMBERS ONLY
DISCOUNT INFORMATION	5% DISCOUNT ON PURCHASE PRICE

FIG.7

DISCOUNT AMOUNT INFORMATION

171

SELLER ID		H001
SHOP ID		HA001
RECEIPT ID		R23456
SELLING TIME/DATE		18:31 17/01/2003
REGISTER ID		REG01
COMMODITY SELLING INFORMATION	COMMODITY ID	ABC001
	UNIT PRICE	¥100
	NUMBER OF UNITS	10
	TOTAL PRICE OF COMMODITIES	¥1000
	TAX	¥50
	MANUFACTURER ID	M001
	BEARER ID	HA001
INFORMATION ID		012345
TOTAL DISCOUNT AMOUNT		¥200

FIG. 8

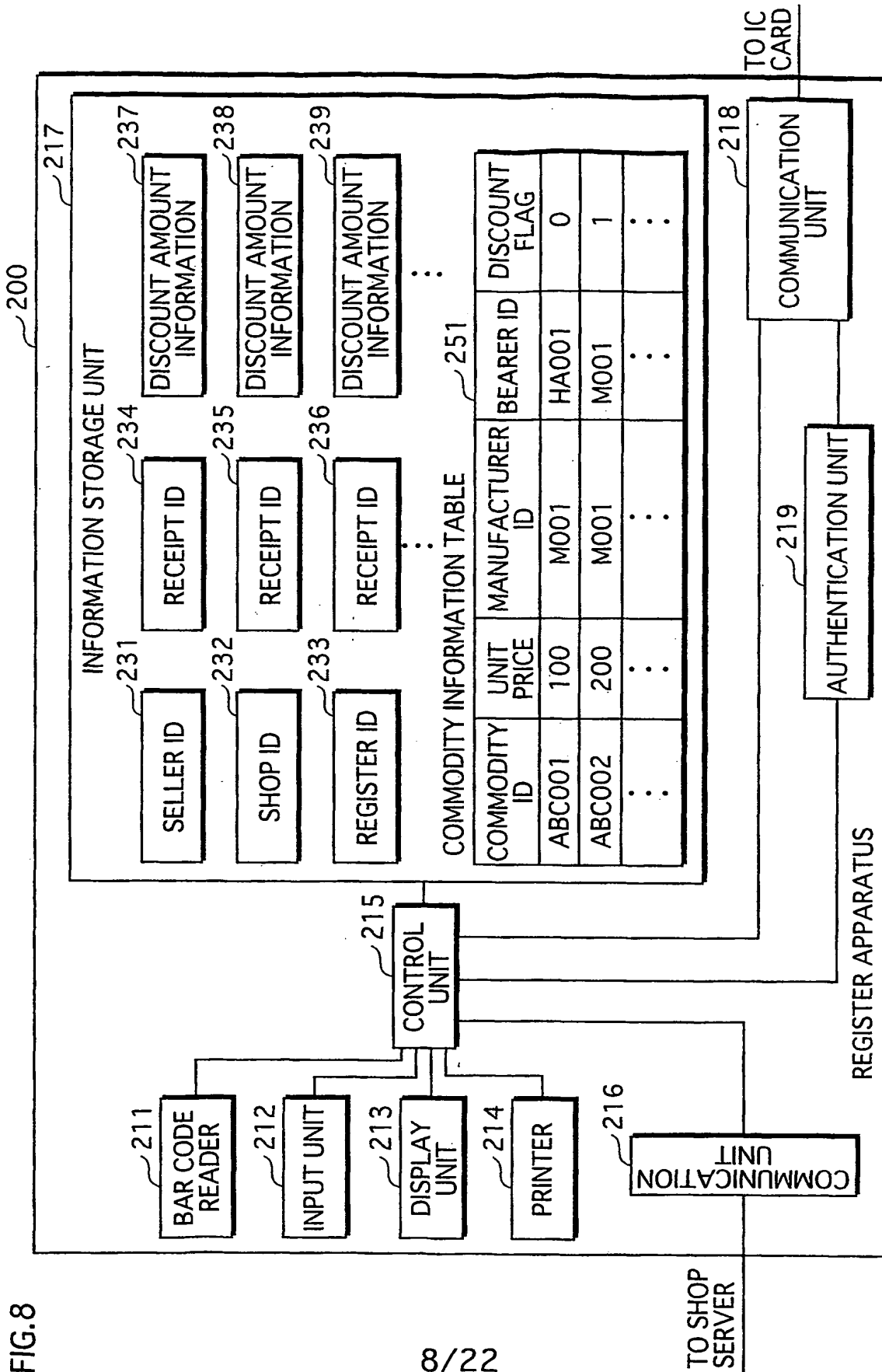


FIG. 9

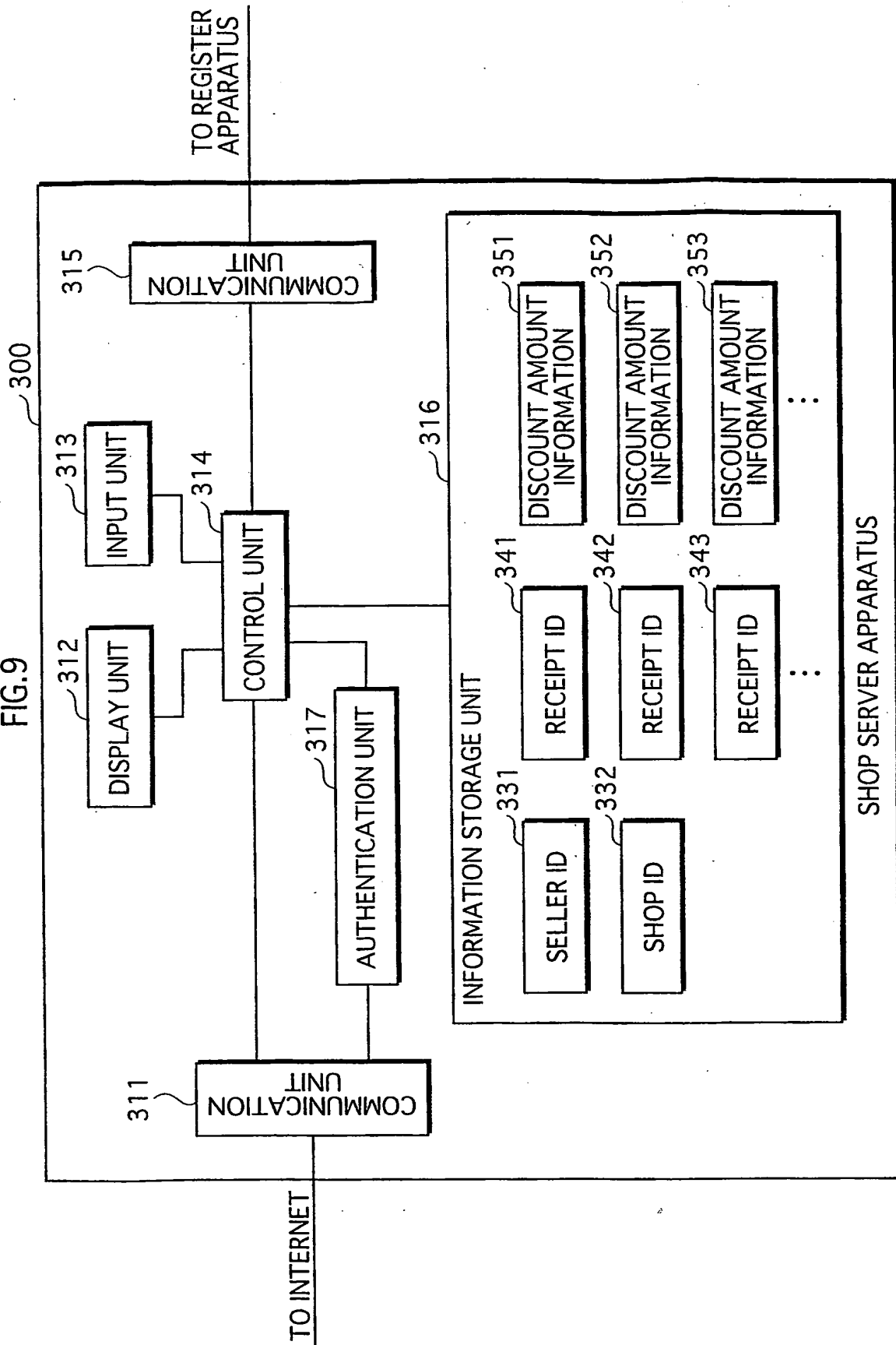


FIG.10

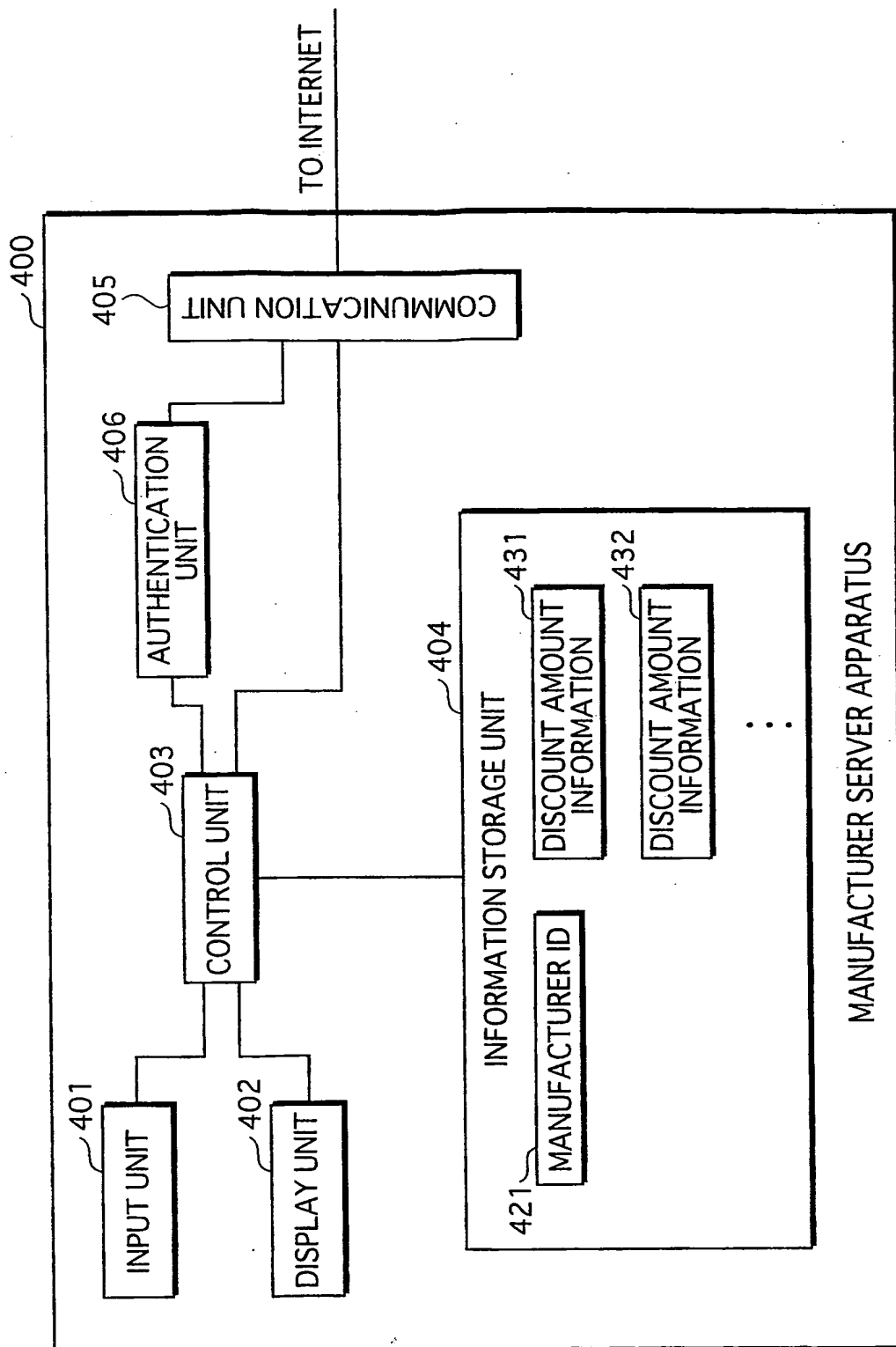


FIG. 11

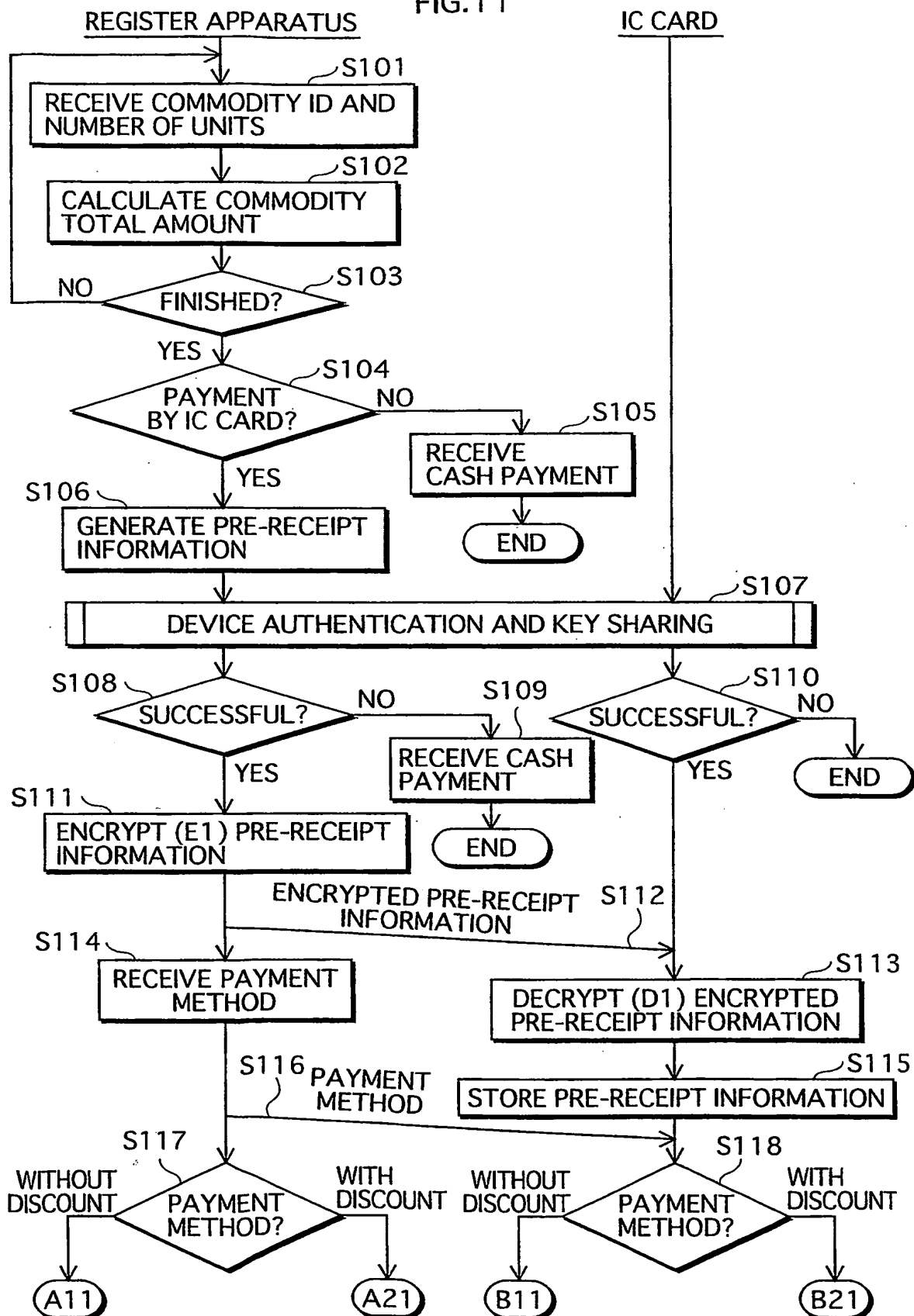


FIG.12

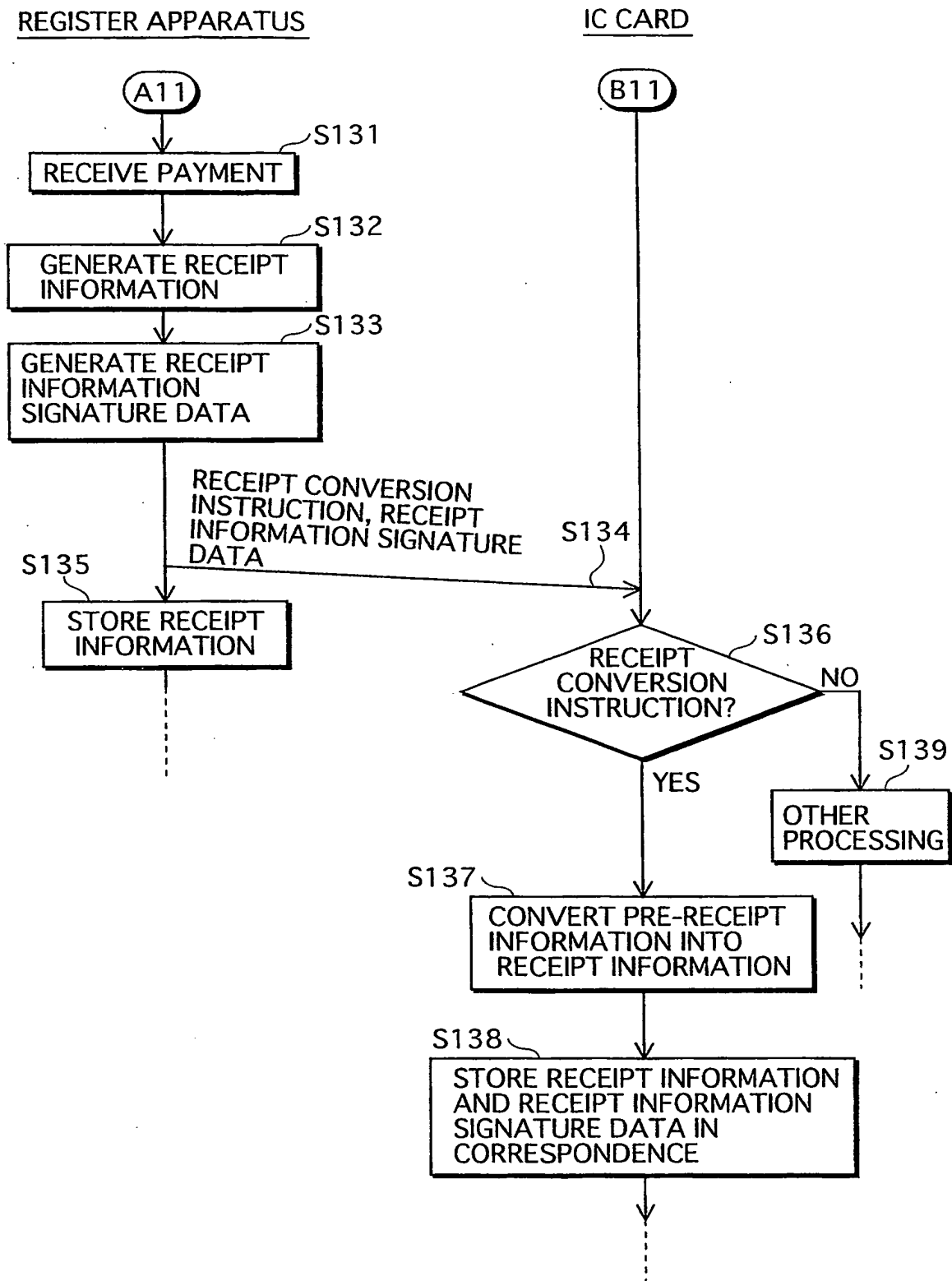


FIG. 13

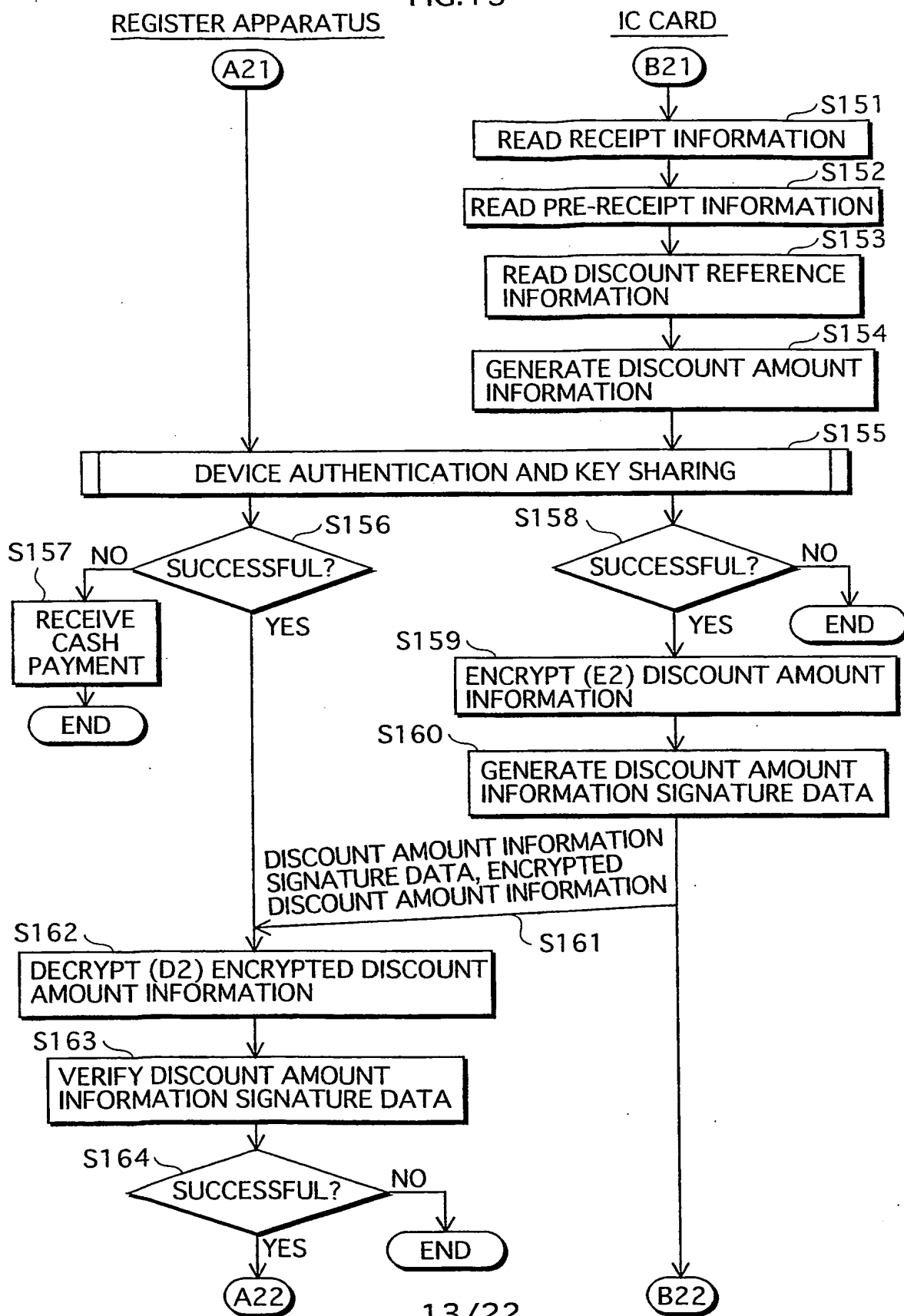


FIG.14

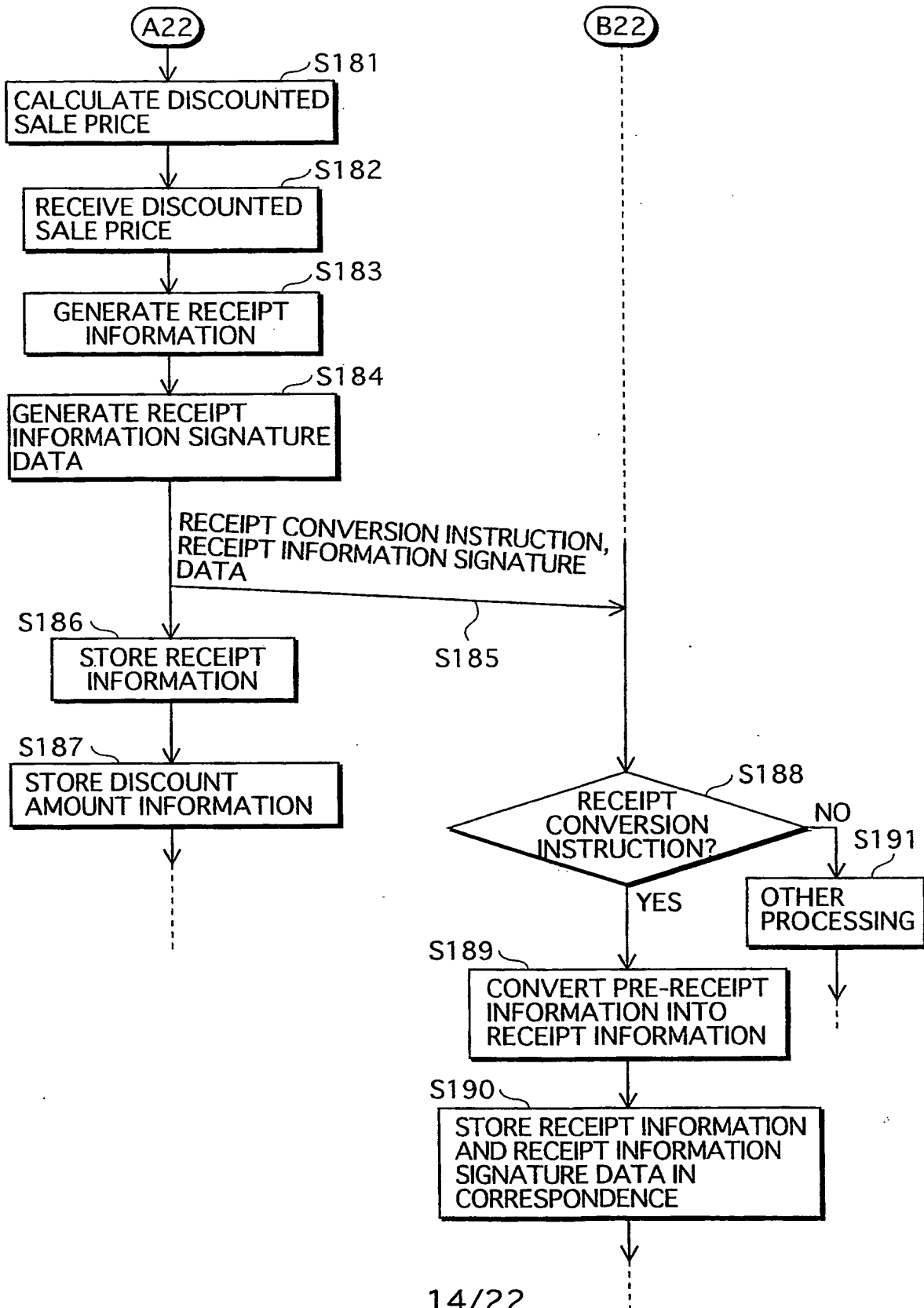


FIG.15

DEVICE AUTHENTICATION AND KEY SHARING

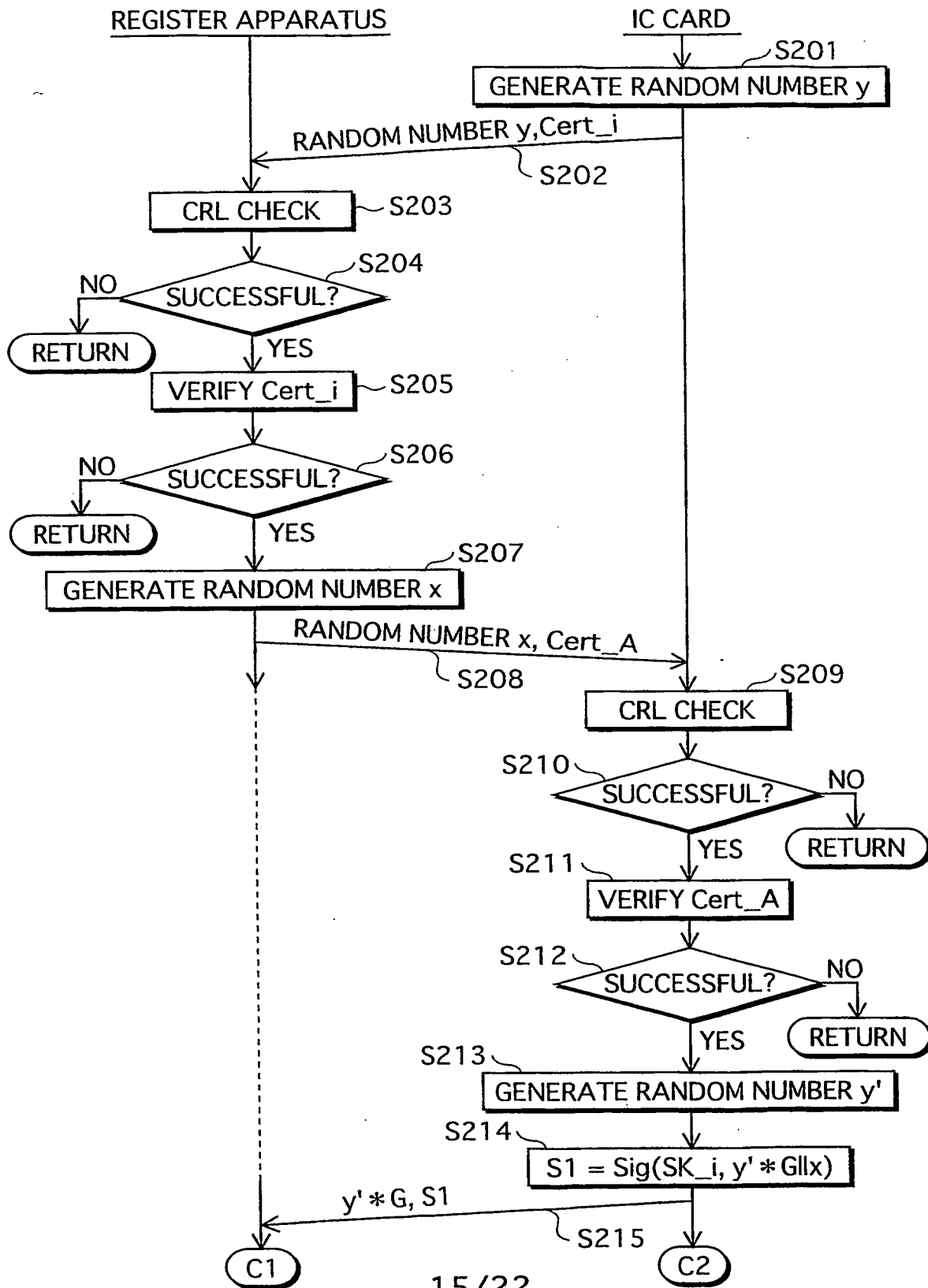


FIG.16

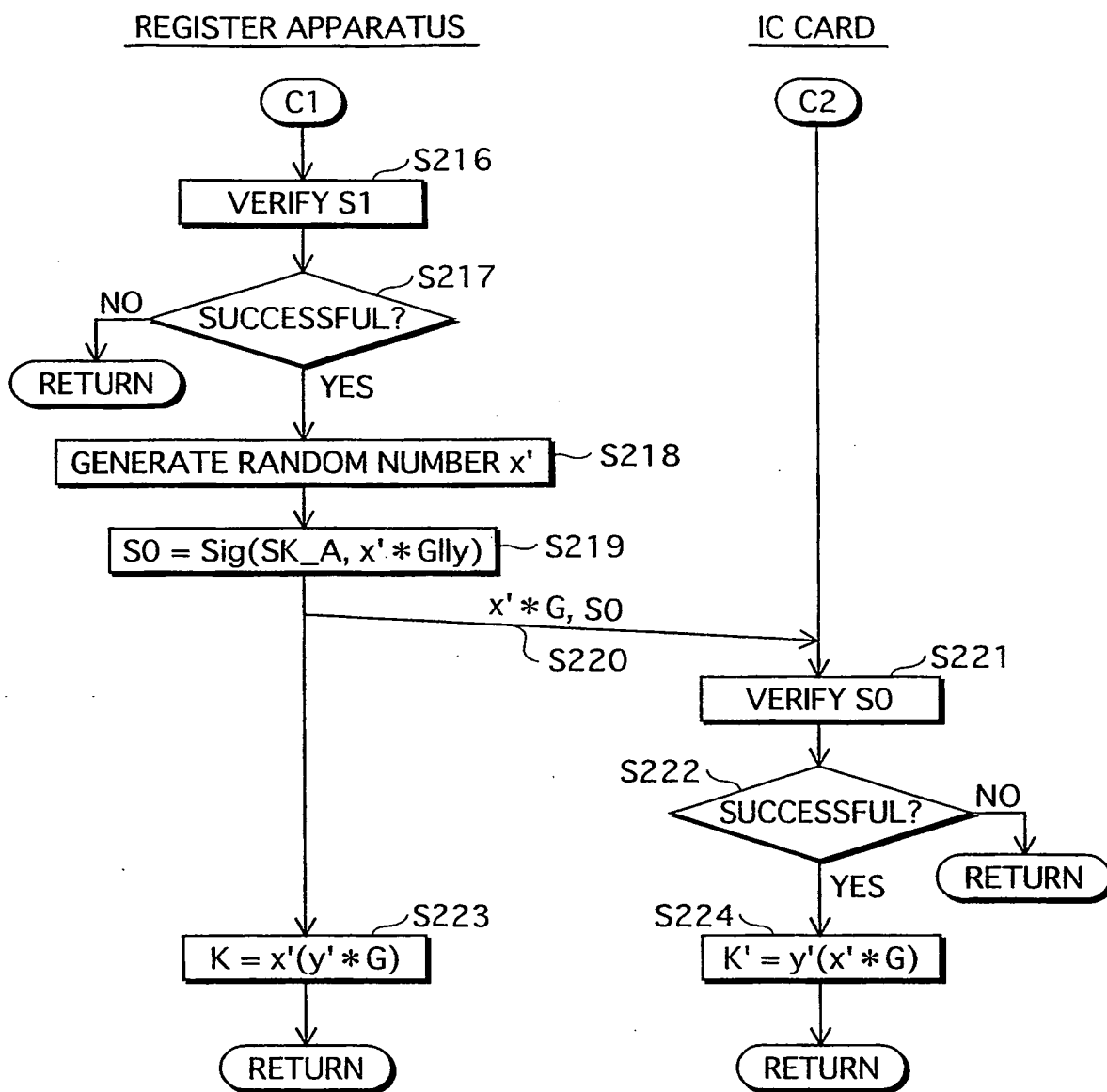


FIG.17

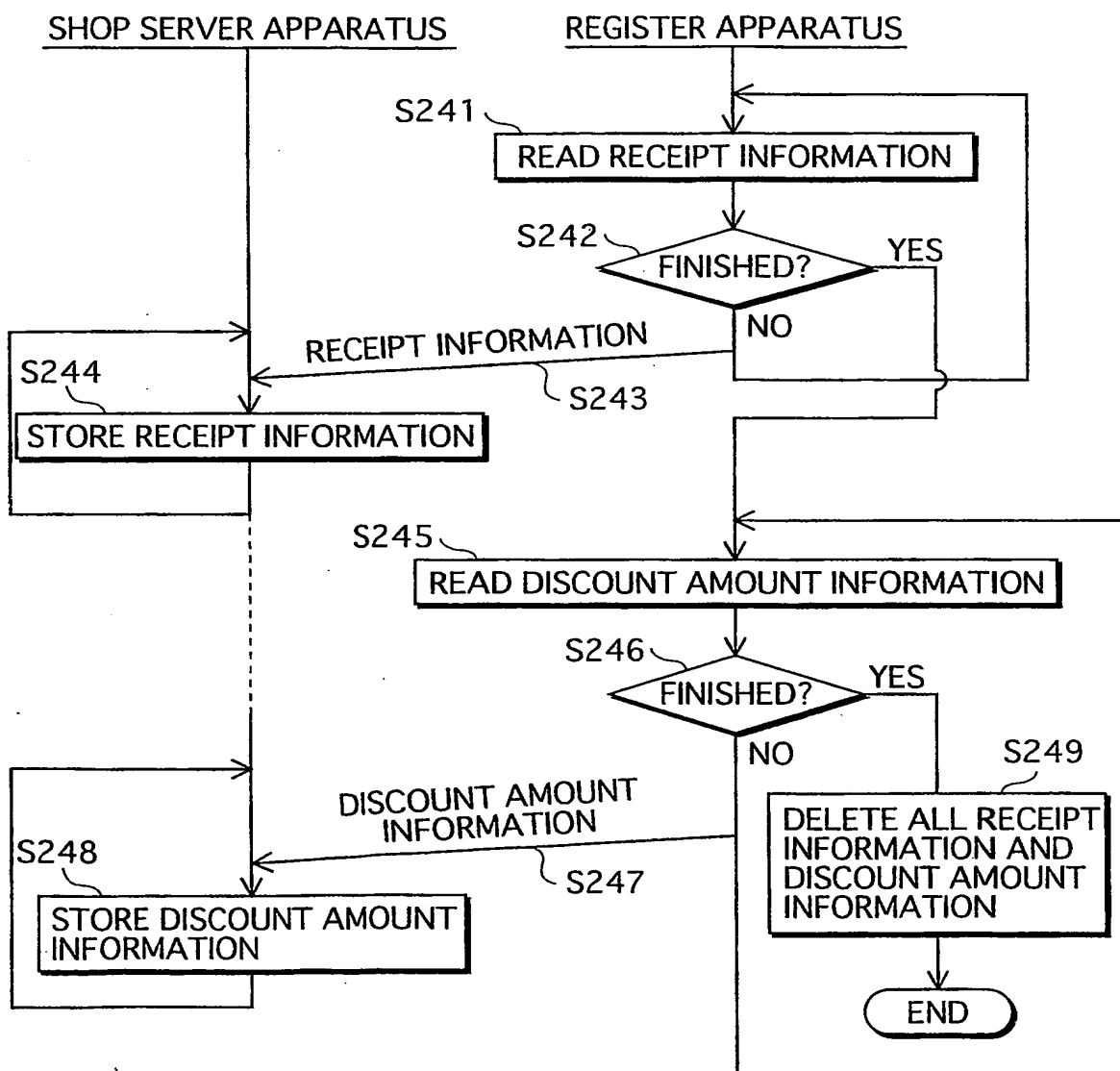
RECEIPT INFORMATION AND DISCOUNT
AMOUNT INFORMATION TRANSFER

FIG. 18

DISCOUNT AMOUNT INFORMATION SETTLEMENT

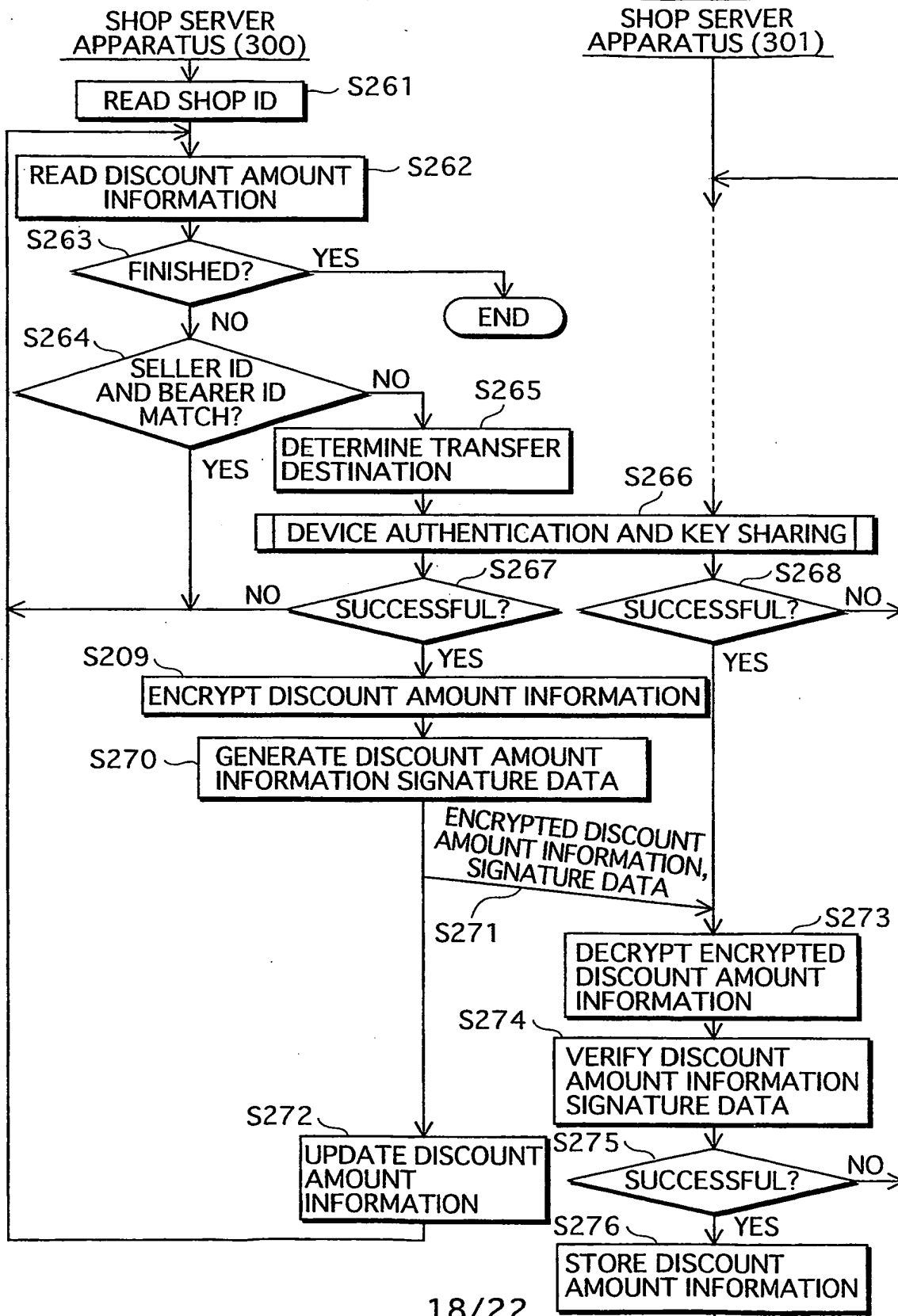
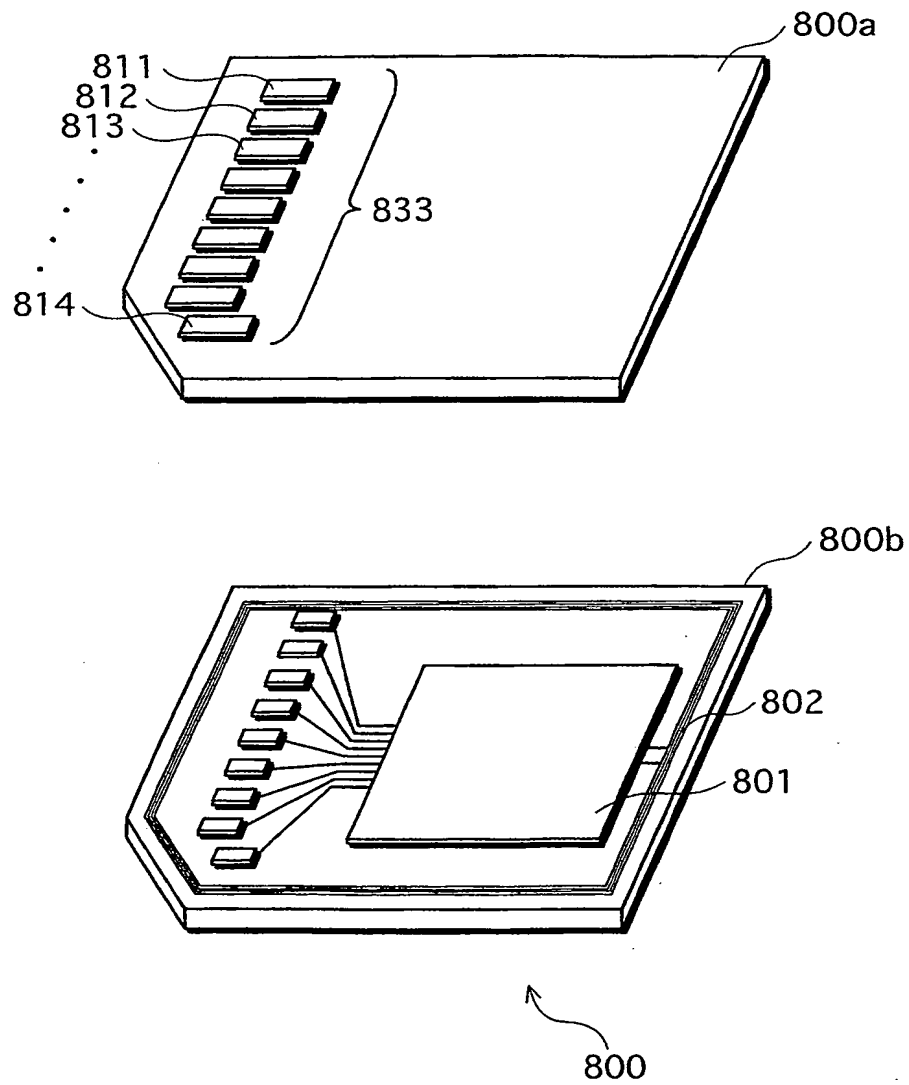


FIG.19



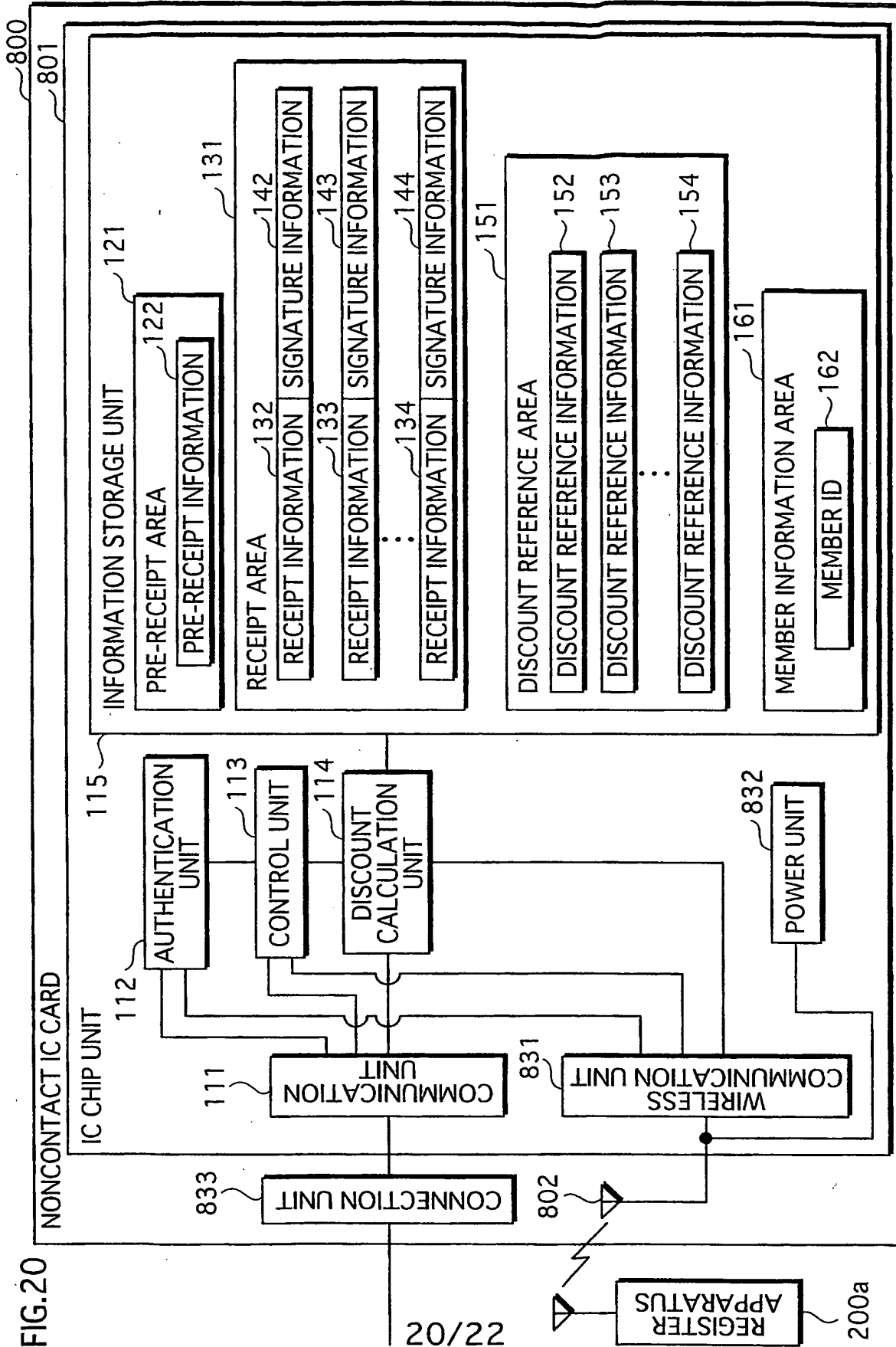


FIG.21

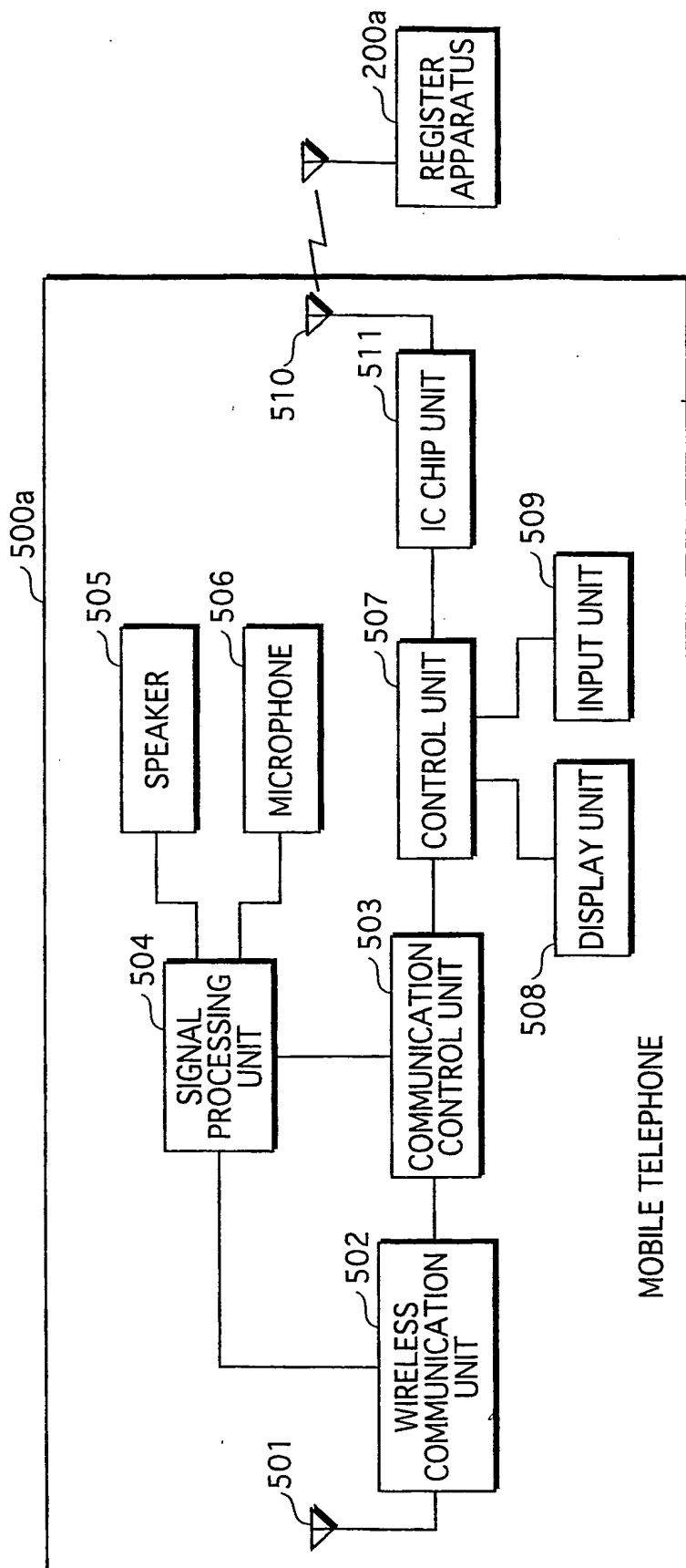


FIG. 22

